

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.nspto.gov

	,			
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/532,352	03/21/2000	Kogo Endo	9319S-000127	7425
75	590 08/08/2002			
	ey & Pierce P L C	EXAMINER		
P O Box 828 Bloomfield Hills, MI 48303			LESPERANCE, JEAN E	
			ART UNIT	PAPER NUMBER
			2674	
			DATE MAILED: 08/08/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Applicant(s)   App								
Examiner	Office Action Summary		Application No.	Applicant(s)				
Jean E Lesperance   2674   Jean E Lesperance   2674			09/532,352	ENDO ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions from remy by switched under the provisions of 37 CFR 1.13(s). In no event, however, may a repty be timely fixed after 5X (5) MCRTHS from the mailing date of this communication.  Extensions for repty is spindle under the provisions of 37 CFR 1.13(s). In no event, however, may a repty be timely fixed after 5X (5) MCRTHS from the mailing date of this communication.  Fallur to repty within the set or extended period for repty will; by sharkfac, cause the application to become ABANDONED (30 u.S.C. § 133).  Any repty mediately by the Office bit than three monitors electric period will apply and will express (4) MONTHS for the mailing date of this communication, even if timely lifes, may reduce any  Status  1) □ Responsive to communication(s) filled on 21 March 2000.  2a) □ This action is FINAL.  2b) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-31 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5 □ Claim(s) 1-31 is/are allowed.  6) □ Claim(s) 1-31 is/are allowed.  6) □ Claim(s) 1-31 is/are allowed.  7 □ Claim(s) 1-31 is/are allowed.  8 □ Claim(s) 1-31 is/are pending in the application.  8 □ Claim(s) 1-31 is/are allowed.  9 □ The specification is objected to by the Examiner.  10 □ The drawing(s) filed on 21 March 2000 is/are: a) □ accepted or b) □ objected to by the Examiner.  10 □ The drawing(s) filed on 21 March 2000 is/are: a) □ accepted or b) □ objected to by the Examiner.  11 □ The oath or declaration is objected to by the Examiner.  12 □ The oath or declaration is obje			Examiner	Art Unit				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  • Extensions of time-may be involved and the provisions of 37 FPR 1.13(s). In no event, however, may a reply be timely filed extensions of time-may be involved by the provisions of 37 FPR 1.13(s). In no event, however, may a reply be timely filed extensions of time-may be involved by the provision of 37 FPR 1.13(s). In no event, however, may a reply be timely filed extensions of timely specified above, the maximum statutory period will apply and will expire SIX (8) MONTH'S from the making also of this communication.  • If NO period for reply a specified above, the maximum statutory period will apply and will expire SIX (8) MONTH'S from the making also of this communication. Provisions and the provision of the communication of the provision and/or election requirement.  4) Claim(s) 1-21 Is/are pending in the application of the provision and/or election requirement.  4) Claim(s) 1-21 Is/are allowed.  6) Claim(s) 1-21 Is/are allowed.  6) Claim(s) 1-21 Is/are allowed.  7) Claim(s) 1-21 Is/are allowed.  8) Claim(s) 1-21 Is/are allowed.  8) Claim(s) 1-21 Is/are allowed.  9) The drawningl								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time many be available under the provisions of 37 CFR 1.35(a). In no event, however, may a reply be timely filed the period for reply specified above is less than thirty (30) easy, a reply within the statulory minimum of tainty (30) easy, a reply within the statulory minimum of tainty (30) easy, a reply within the statulory minimum of tainty (30) easy, will be considered from the realing date of this communication.  Finally to the period for reply specified above is less than thirty (30) easy, a reply within the statulory minimum of tainty (30) easy, will be considered from the realing less of the scanned advant many application.  Finally to the period for reply specified above is the statulory minimum of tainty (30) easy, will be considered from the realing less of the scanned advant many application.  Finally to this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  Finally to the above claim(s)			ears on the cover sheet with the o	correspondence address				
1) Responsive to communication(s) filed on 21 March 2000.  2a) This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-31 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6  Claim(s) 1-31 is/are rejected.  7  Claim(s) is/are objected to.  8  Claim(s) 1-31 is/are objected to.  8  Claim(s) is/are objected to by the Examiner.  Applicant Papers  9  The specification is objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) accepted or b) objected to by the Examiner.  fi approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some or Or None of:  1. Certified copies of the priority documents have been received in Application No.  3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) Notice of References Cited (PTC-892)	A SH THE I - Exter after - If the - If NO - Failu - Any r earne	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1.31 is/are pending in the application.  4a) Of the above claim(s)  is/are withdrawn from consideration.  5)  Claim(s)  is/are allowed.  6)  Claim(s) 1.31 is/are rejected.  7)  Claim(s)  is/are objected to.  8)  Claim(s)  are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on 21 March 2000 is/are: a)  accepted or b)  objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on  is: a)  approved b)  disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  Notice of References Cited (PTO-892)		Responsive to communication(s) filed on 21 M	March 2000					
3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) S Claim(s) 1-31 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 21 March 2000 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved by disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  Certified copies of the priority documents have been received.  2 Certified copies of the priority documents have been received in Application No  3 Copies of the certified copies of the priority documents have been received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s) Interview Summary (PTO-413) Paper No(s)  Notice of References Cited (PTO-822)  2) Notice of References Cited (PTO-824)	·							
A) Claim(s) 1-31 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) ☒ Claim(s) is/are rejected.  7) □ Claim(s) is/are rejected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 21 March 2000 is/are: a) □ accepted or b) ☒ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) □ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) □ Some * c) □ None of:  1. ☒ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) □ The translation of the foreign language provisional application has been received.  15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  10 ☒ Notice of References Cited (PTO-892)  21 ☒ Notice of Draftspersson's Patent Drawing Review (PTO-948)		3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) ☒ Claim(s) is/are allowed.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on is/are: a) □ accepted or b) ☒ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) □ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) □ Some * c) □ None of:  1. ☒ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) □ The translation of the foreign language provisional application has been received.  15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  10 ☒ Notice of References Cited (PTO-982)  21 ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) □ Notice of Informal Patent Application (PTO-152)	Dispositi		= x parto quayro; 1000 0.0. 11;	3.3.210.				
5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers 9) □ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 21 March 2000 is/are: a) □ accepted or b) ☒ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) □ Some * c) □ None of:  1. ☒ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) □ The translation of the foreign language provisional application has been received.  15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  10 ☒ Notice of References Cited (PTO-892)  21 ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) □ Notice of Informal Patent Application (PTO-152)	4)🖂	4)⊠ Claim(s) <u>1-31</u> is/are pending in the application.						
6   Claim(s) 1-31 is/are rejected. 7   Claim(s) is/are objected to. 8   Claim(s) is/are objected to. 8   Claim(s) are subject to restriction and/or election requirement. Application Papers 9   The specification is objected to by the Examiner. 10   The drawing(s) filed on 21 March 2000 is/are: a   accepted or b   objected to by the Examiner.		4a) Of the above claim(s) is/are withdrawn from consideration.						
7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 21 March 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) ☐ Some * c) ☐ None of:  1. ☒ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Aktachment(s)  1) ☒ Notice of References Cited (PTO-892)  2) ☒ Notice of Informal Patent Application (PTO-152)	5)	Claim(s) is/are allowed.						
S   Claim(s) are subject to restriction and/or election requirement.   Application Papers	6)⊠	☑ Claim(s) <u>1-31</u> is/are rejected.						
Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 21 March 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) ☐ Some * c) ☐ None of:  1. ☒ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☒ Notice of References Cited (PTO-892)  2) ☒ Notice of Informal Patent Application (PTO-152)	7)	Claim(s) is/are objected to.						
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 21 March 2000 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152)			r election requirement.					
10) ☐ The drawing(s) filed on 21 March 2000 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Praftsperson's Patent Drawing Review (PTO-948)  5) ☐ Notice of Informal Patent Application (PTO-152)	_	-	r.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some coll None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Draftsperson's Patent Drawing Review (PTO-948)								
If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) ☐ Some * c) ☐ None of:  1. ☒ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☒ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413) Paper No(s)  5) ☐ Notice of Informal Patent Application (PTO-152)								
Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)								
13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c) None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  4)  Interview Summary (PTO-413) Paper No(s)  Notice of Draftsperson's Patent Drawing Review (PTO-948)	12) The oath or declaration is objected to by the Examiner.							
a) ⊠ All b) ☐ Some * c) ☐ None of:  1. ☑ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) ☐ Notice of Informal Patent Application (PTO-152)	Priority u	ınder 35 U.S.C. §§ 119 and 120						
1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) ☐ Notice of Informal Patent Application (PTO-152)	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) ☐ Notice of Informal Patent Application (PTO-152)	a)[	a)⊠ All b)□ Some * c)□ None of:						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)		1. Certified copies of the priority documents have been received.						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  1 Notice of Informal Patent Application (PTO-152)								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  10 Interview Summary (PTO-413) Paper No(s)  11 Notice of Informal Patent Application (PTO-152)	* S	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152)								
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152)	a) The translation of the foreign language provisional application has been received.							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)			- p. 120, 50 5,6,6, 33 120					
-,	2) 🔯 Notic		5) Notice of Informal F					

Application/Control Number: 09/532,352

Art Unit: 2674

#### **DETAILED ACTION**

#### Drawings

This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4, 11, and 13 are rejected under 35 U.S.C. 102 (b) as being unpatentable over U.S. Patent # 5,728,591 ("Takahashi et al.").

As for claim, 1,4, 11, and 13, Takahashi et al. teach Fig. 21(d) that is a section a showing a microminiature and highly dense active matrix type light valve device which is assembled by using the aforementioned integrated circuit chip 167. The light valve device is composed of an opposed substrate 171 which is arranged opposite to the integrated circuit chip 167 at a predetermined gap, and liquid crystal layer 172 filing up said rap and made of an electrooptical substance layer (column 20, lines 47) corresponding to "display panel having an electrooptic material layer on a substrate, said display panel having a driver integrated circuit mounted on an extended area in which an edge of the substrate, said extended area provided in at least a margin of said display panel, Fig. 21(c) corresponding to wherein a control circuit board, provided

Application/Control Number: 09/532,352

Art Unit: 2674

above said driver integrated circuit so as to be substantially placed within said extended area, is connected to an input terminal portion of said driver integrated circuit".

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 10 are rejected under 35 U.S.C. 103 (a) as being unpatentable over U.S. Patent # 5,728,591 ("Takahashi et al.") in view of U.S. Patent # 4,379,621 ("Ikedo et al.").

As for claim 2, Takahashi et al. teach Fig. 21(d) that is a section a showing a microminiature and highly dense active matrix type light valve device that is assembled by using the aforementioned integrated circuit chip 167. The light valve device is composed of an opposed substrate 171 which is arranged opposite to the integrated circuit chip 167 at a predetermined gap, and liquid crystal layer 172 filing up said rap and made of an electrooptical substance layer (column 20, lines 47) corresponding to a display device comprising extended area in which an edge of one of the substrates extends further than an edge of the other substrate, said extended area provided in at least a margin of said display panel, Fig. 21(c) corresponding to wherein a control circuit board, provided above said driver integrated circuit so as to be substantially placed within said extended area, is connected to an input terminal portion of said driver

Application/Control Number: 09/532,352

Art Unit: 2674

integrated circuit. Accordingly Takahashi et al. teach all the claimed limitations as recited in claim 2 with the exception of providing an electrooptic material layer sandwiched between a pair of electrodes.

However, Ikedo et al. teach a plurality of parallel finger electrodes 12 and 13 in opposed relation connected to source 14. The finger electrodes are oriented at 45 degrees relative to the polarization axes of the first and second polarizers 2 and 6 (column 3, lines 24-28).

It would have been obvious to utilize the finger electrodes 12 and 13 as taught by Ikedo et al. in the light valve device disclosed by Takahashi et al. because this would provide an image display device which produces a sharply defined image.

Claims 3, 6, 12, and 15 are rejected under 35 U.S.C. 103 (a) as being unpatentable over U.S. Patent # 4,379,621 ("Ikedo et al.") in view of U.S. Patent # 5,728,591 ("Takahashi et al.").

As for claims 3, 6, 12, and 15, Ikeda et al. teach a display panel (column 1, line 16); a plurality of parallel finger electrodes 12 and 13 in opposed relation (column 3, lines 24-25) corresponding to a first and a second substrate opposed to each other; a transparent electrooptic plate of ferroelectric material between said first and second polarizers (column 7, lines 41-42) corresponding to electrooptic material layer provided between the first and second substrates; the finger electrodes 41a and 41b so that the electrode 42b is close to the adjacent matrix signal 42k-I (column 4, lines 23-26) corresponding to a first extended area provided in one of adjacent margins of said display panel; a second extended area provided in the other margin (column 4, lines 33-

Art Unit: 2674

43); scan finger electrode 41b and further undesirable capacitive coupling between scan finger electrodes 41a, 41b and adjacent scan electrodes 41j+l (column 4, lines 36-38) corresponding to scanning electrodes formed on a surface of the first substrate which is opposed to the second substrate; a scanning driver integrated circuit connected to said scanning electrodes which is mounted on the first extended area, in which the first substrate extends further than an edge of the second substrate (column 5, lines 42-53). Accordingly lkedo et al. teach all the claimed limitations as recited in claim 3 with the exception of providing a data signal driver integrated circuit.

However, Takahashi et al. teach a mask ROM, the data are written in the individual channel forming regions of the transistors elements which are integrally formed in an array shape (column 11, lines 59-62) corresponding to a data signal driver integrated circuit.

It would have been obvious to utilize the data written in the individual channel as taught by Takahashi et al. in the image display device disclosed by Ikedo et al. because this would provide a highly densified semiconductor device.

As for claims 5, 8, 14, 17, 20-22, 24-25, 27, 29, and 31, Ikedo et al. teach a light scattering properties of the ceramic material that are attributed to a change on structure of the material under the influence of an electric field applied in the direction of thickness of the material (column 1, lines 29-33) corresponding to a circuit-wiring pattern formed on a flexible insulating-resin substrate and electronic components provided for controlling a driving of said display panel.

Page 6

Art Unit: 2674

As for claims 7, 16, 23, and 28, Takahashi et al. teach a thin film laminated layer 1 formed integrally with transistors elements and a support layer 2 for supporting the thin film laminated layer 1(column 5, lines 39-41) corresponding to a multilayer structure having insulating a layer interposed between a plurality of wiring layers in which predetermined upper and lower wiring layers are connected via a through hole or a via hole.

As for claims 9, 18, and 30, Takahashi et al. teach an electrooptical substance such as a liquid crystal layer (column 13, lines 6-7) corresponding to said electrooptic material layer is a liquid-crystal layer.

As for claims 10, 19, and 26, Ikedo et al. teach an electroluminescent display (column 1, line 14) corresponding to an electrooptic material layer is an electroluminescent light emitting layer including an electroluminescent material.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (703) 308-6413. The examiner can normally be reached on from Monday to Friday between 8:OOAM and 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Art Unit: 2674

Page 7

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance

Art unit 2674

Date 7-27-2002

RICHARD HJERPE

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800